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at which he worked up to about three years ago. His work was always of the highest order. His neatness and exactness in the preparation of entomological material was unique and characteristic. It gained for him the appointment of assistant curator in the entomological department of the California Academy of Sciences, where he worked up to the time of his last illness. After the San Francisco disaster and while the academy was unsettled he received the appointment of preparateur and assistant in the entomological department of the University of California, where he was known by the students as Professor Fuchs. When the California Academy of Sciences was again ready for his services he returned to it.

He leaves a widow, Maria Fuchs, who was a typical and devoted helpmate, and who could even excel her husband in the care and mounting of the coleopterous *Pselaphidæ*.

In the death of Mr. Fuchs, one of the last of a group of the older entomologists has passed away; to this group belonged Frederick Blanchard, Samuel H. Scudder, Henry Ulke and Phillip R. Uhler. The younger entomologists of the Pacific Coast, many of whom were his intimate friends, have ever been stimulated and enthused by his earnestness and example. He was a member of the California Academy of Sciences, and also of the *Deutsche Entomologische Gesellschaft* of Berlin. It was he who organized the Pacific Coast Entomological Society and was its first president, a position which he held for several years. In his earlier years he was similarly connected with the Brooklyn Entomological Society, and contributed short articles and notes to its *Bulletin*. In 1882, he published a synopsis of the *Lucanidæ* of the United States.

FRANK E. BLAISDELL, SR.

#### ESTIMATES OF POPULATION

THE United States is now a country of 109,000,000 people, according to the bulletin containing the estimates of population for the years subsequent to the thirteenth census, soon to be published by Director William J. Harris, of the bureau of census, Department of Com-

merce. It was prepared under the supervision of C. S. Sloane, geographer.

As stated, the estimated population of the United States for July 1, 1914, will be 109,021,992. The population of the United States and its possessions in 1910 was 101,748,269; so there will have been an estimated gain of over 7,000,000 persons in a little more than four years. The corresponding estimated population of continental United States for July 1, 1914, is 98,781,324, as compared with the population of 91,972,266, as returned by enumerators, April 15, 1910. This bulletin also presents the estimates of population in 1910, 1911, 1912, 1913 and 1914, for the states and territories, and for cities which had 8,000 or more inhabitants in 1910.

Estimates of population are required primarily for use in the census bureau in calculating death-rates and per capita averages for years other than the census year. The so-called arithmetical method was adopted for computing these estimates. It is the simplest and it has been shown by experience to come nearer in accuracy in the majority of cases than any other formula. It rests on the assumption that the increase in population each year since the enumeration is equal to the annual increase from 1900 to 1910.

The bulletin presents in its several tables population data for the United States and its outlying possessions in 1910 and 1900, with estimates of the population July 1, 1914, 1913, 1912, 1911 and 1910. Similar data are also presented for the different states in the union. There is also presented a statement of white and colored population on April 15, 1910, together with estimates of the white and colored population as of July 1 for each of the years 1914, 1913, 1912, 1911 and 1910. These estimates, however, have been confined to the states having a considerable proportion of colored population, no estimate being presented for any state that did not have 50,000 or more colored inhabitants on April 15, 1910, or at least ten per cent. of its population colored.

The estimates of population for July 1,

1914, and the population April 15, 1910, for all states are as follows:

State	Population	
	Estimated: July 1, 1914	Census: April 15, 1910
Alabama .....	2,269,945	2,138,093
Arizona .....	239,053	204,354
Arkansas .....	1,686,480	1,574,449
California .....	2,757,895	2,377,549
Colorado .....	909,537	799,024
Connecticut .....	1,202,688	1,114,756
Delaware .....	209,817	202,322
District of Columbia ...	353,378	331,069
Florida .....	848,111	752,619
Georgia .....	2,776,513	2,609,121
Idaho .....	395,407	325,594
Illinois .....	5,986,781	5,638,591
Indiana .....	2,779,467	2,700,876
Iowa .....	2,221,755	2,224,771
Kansas .....	1,784,897	1,690,949
Kentucky .....	2,350,731	2,289,905
Louisiana .....	1,773,482	1,656,388
Maine .....	762,787	742,371
Maryland .....	1,341,075	1,295,346
Massachusetts .....	3,605,522	3,366,416
Michigan .....	2,976,030	2,810,173
Minnesota .....	2,213,919	2,075,708
Mississippi .....	1,901,882	1,797,114
Missouri .....	3,372,886	3,293,335
Montana .....	432,614	376,053
Nebraska .....	1,245,873	1,192,214
Nevada .....	98,726	81,875
New Hampshire .....	438,662	430,572
New Jersey .....	2,815,663	2,537,167
New Mexico .....	383,551	327,301
New York .....	9,899,761	9,113,614
North Carolina .....	2,339,452	2,206,287
North Dakota .....	686,966	577,056
Ohio .....	5,026,898	4,767,121
Oklahoma .....	2,026,534	1,657,155
Oregon .....	783,239	672,765
Pennsylvania .....	8,245,967	7,665,111
Rhode Island .....	591,215	542,610
South Carolina .....	1,590,015	1,515,400
South Dakota .....	661,583	583,888
Tennessee .....	2,254,754	2,184,789
Texas .....	4,257,854	3,896,542
Utah .....	414,518	373,351
Vermont .....	361,205	355,956
Virginia .....	2,150,009	2,061,612
Washington .....	1,407,865	1,141,990
West Virginia .....	1,332,910	1,221,119
Wisconsin .....	2,446,716	2,333,860
Wyoming .....	168,736	145,965

State	City	Population	
		Estimated: July 1, 1914	Census: April 15, 1910
ALABAMA.....	Birmingham...	166,154	132,685
CALIFORNIA.....	Los Angeles...	438,914	319,198
	Oakland.....	183,002	150,174
	San Francisco...	448,502	416,912
COLORADO.....	Denver.....	245,523	213,381
CONNECTICUT...	Bridgeport...	115,289	102,054
	Hartford.....	107,038	98,915
	New Haven...	144,505	133,605
DIST. OF COLUM-			
BIA.....	Washington...	353,378	331,069
GEORGIA.....	Atlanta.....	179,292	154,839
ILLINOIS.....	Chicago.....	2,393,325	2,185,283
INDIANA.....	Indianapolis...	259,413	233,650
KENTUCKY.....	Louisville...	235,114	223,928
LOUISIANA.....	New Orleans...	361,221	339,075
MARYLAND.....	Baltimore...	579,590	558,485
MASSACHUSETTS	Boston.....	733,802	670,585
	Cambridge...	110,357	104,839
	Fall River...	125,443	119,295
	Lowell.....	111,004	106,294
	New Bedford...	111,230	96,652
	Springfield...	100,375	88,926
	Worcester...	157,732	145,986
MICHIGAN.....	Detroit.....	537,650	465,766
	Grand Rapids...	123,227	112,571
MINNESOTA.....	Minneapolis...	343,466	301,408
	St. Paul.....	236,766	214,744
MISSOURI.....	Kansas City...	281,911	248,381
	St. Louis.....	734,667	687,029
NEBRASKA.....	Omaha.....	133,274	124,096
NEW JERSEY....	Camden.....	102,465	94,538
	Jersey City...	293,921	267,779
	Newark.....	389,106	347,469
	Paterson.....	134,305	125,600
	Trenton.....	106,831	96,815
NEW YORK.....	Albany.....	102,961	100,253
	Buffalo.....	454,112	423,715
	New York		
	(including)...	5,333,537	4,766,883
	Bronx		
	borough ..	529,198	430,980
	Brooklyn		
	borough ..	1,833,696	1,634,351
	Manhattan		
	borough ..	2,536,716	2,331,542
	Queens		
	borough ..	339,886	284,041
	Richmond		
	borough ..	94,043	85,969
	Rochester....	241,518	218,149
	Syracuse.....	149,353	137,249
OHIO.....	Cincinnati...	402,175	363,591
	Cleveland....	639,431	560,663
	Columbus....	204,567	181,511
	Dayton.....	123,794	116,577
	Toledo.....	184,126	168,497
OREGON.....	Portland.....	260,601	207,214
PENNSYLVANIA..	Philadelphia..	1,657,810	1,549,008
	Pittsburgh...	564,878	533,905
	Reading.....	103,361	96,071
	Scranton.....	141,351	129,867
RHODE ISLAND..	Providence...	245,090	224,326

State	City	Population	
		Estimated: July 1, 1914	Census: April 15, 1910
TENNESSEE.....	Memphis.....	143,231	131,105
	Nashville.....	114,899	110,364
TEXAS.....	Dallas.....	111,986	92,104
	San Antonio...	115,063	96,614
UTAH.....	Salt Lake City.	109,530	92,777
VIRGINIA.....	Richmond.....	134,917	127,628
WASHINGTON...	Seattle.....	313,029	237,194
	Spokane.....	135,657	104,402
WISCONSIN.....	Tacoma.....	103,418	83,743
	Milwaukee....	417,054	373,857

The preceding list shows the estimates of population for July 1, 1914, and the population in 1910, for cities having an estimated population July 1, 1914, of at least 100,000.

#### SCIENTIFIC NOTES AND NEWS

DR. DAVID STARR JORDAN, chancellor of Leland Stanford University, has been elected president of the National Education Association.

DR. F. W. DYSON, astronomer royal of Great Britain, has been elected a correspondent of the Paris Academy of Sciences, in the section of astronomy.

ON May 13, the Daly medal for geographical research of the American Geographical Society, which had been awarded by the council to Dr. A. Penck, professor of geography, Berlin, was formally presented to him by the Hon. James W. Gerard, ambassador of the United States to Germany, at the embassy in Berlin.

THE trustees of the American Medicine Gold Medal Award announce that the medal for 1914 has been conferred upon Dr. George W. Crile, of Cleveland, O., as the American physician, who, in their judgment, has performed the most conspicuous and noteworthy service in the domain of medicine and surgery during the past year.

THE London Mathematical Society has awarded its de Morgan medal to Sir Joseph Larmor of the University of Cambridge.

PROFESSOR W. F. BRUCK has received the Askenasy prize of the Senckenberg Scientific

Society of Frankfort for his botanical researches.

DENNISON UNIVERSITY has conferred the degree of LL.D. on Dr. Richard C. Maclaurin, president of the Massachusetts Institute of Technology; Dr. Ernest F. Nichols, president of Dartmouth College; Dr. W. H. P. Faunce, president of Brown University, and Professor William E. Castle, of Harvard University.

ON the occasion of the tercentenary of the founding of Groningen University the following honorary degrees have been conferred: Doctor of Medicine on Sir Edward Schaefer, Edinburgh, and Professor J. N. Langley, Cambridge; Doctor of Geology and Mineralogy on Dr. A. L. Day, of the Carnegie Institution; Doctor of Botany and Zoology on Professor S. J. Hickson, Manchester.

AT its recent commencement the Birmingham Medical College and Graduate School of Medicine of the University of Alabama conferred the honorary degree of doctor of medicine upon Dr. A. Richard Bliss, Jr., professor of chemistry and pharmacology in the university.

THE University of Toronto has conferred the degree of doctor of science on Mr. Frank T. Shutt, Dominion chemist and assistant director of experimental farms.

PROFESSOR JAMES GEIKIE, professor of geology in the University of Edinburgh since 1882, when he succeeded his brother, Sir Archibald Geikie, is about to retire from the active duties of the chair.

PROFESSOR T. R. LYLE, F.R.S., is shortly to resign the professorship of natural philosophy in the University of Melbourne.

DR. ALOIS RIEHL, professor of philosophy at Berlin, has given the seventeen thousand marks presented to him on his seventieth birthday for the establishment of Dozentenhaus, intended to be a hall of residence for lecturers at the university.

AT the request of many organizations throughout Louisiana the Treasury Department has ordered Surgeon-General Rupert Blue, of the Public Health Service, to take